

CONTAINS NO CBI

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Comprehensive Assessment Information Rule

REPORTING FORM

When completed, send this form to:

Document Processing Center
Office of Toxic Substances, TS-790
U.S. Environmental Protection Agency
401 M Street, SW
Washington, DC 20460
Attention: CAIR Reporting Office

For Agency Use Only:

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Docket Number:

EPA Form 7710-52

*	1	SECTION 1 GENERAL MANUFACTURER, IMPORTER, AND PROCESSOR INFORMATION
PART	Α (GENERAL REPORTING INFORMATION
1.01	Th	is Comprehensive Assessment Information Rule (CAIR) Reporting Form has been
CBI	con	repleted in response to the <u>Federal Register Notice of $[1]2[2][2][8]9$</u> mo. day year
[_]	a.	If a Chemical Abstracts Service Number (CAS No.) is provided in the Federal
		Register, list the CAS No $[0]2]6]4]7]1]-[6]2]-[5]$
	ь.	If a chemical substance CAS No. is not provided in the <u>Federal Register</u> , list either (i) the chemical name, (ii) the mixture name, or (iii) the trade name of the chemical substance as provided in the <u>Federal Register</u> .
		(i) Chemical name as listed in the rule NA
		(ii) Name of mixture as listed in the rule
		(iii) Trade name as listed in the rule
	c.	If a chemical category is provided in the <u>Federal Register</u> , report the name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of the substance you are reporting on which falls under the listed category.
		Name of category as listed in the rule NA
		CAS No. of chemical substance [_]_]_]_]_]_]_[]_[]_[]
		Name of chemical substance
1.02	Ide	ntify your reporting status under CAIR by circling the appropriate response(s).
CBI	Man	ufacturer
[_]	Imp	orter 2
	Pro	cessor
	X/P	manufacturer reporting for customer who is a processor 4
	X/P	processor reporting for customer who is a processor
	 .	
[_]	Mark	(X) this box if you attach a continuation sheet.

1.03	Does the substance you are reporting on have an "x/p" designation associated with it in the above-listed Federal Register Notice?
(<u></u>)	Yes
	No
1.04 <u>CBI</u>	a. Do you manufacture, import, or process the listed substance and distribute it under a trade name(s) different than that listed in the Federal Register Notice? Circle the appropriate response.
[-]	Yes 1
`'	No
	b. Check the appropriate box below:
	[] You have chosen to notify your customers of their reporting obligations
	Provide the trade name(s)
	[_] You have chosen to report for your customers
	[] You have submitted the trade name(s) to EPA one day after the effective date of the rule in the <u>Federal Register</u> Notice under which you are reporting.
1.05	If you buy a trade name product and are reporting because you were notified of your reporting requirements by your trade name supplier, provide that trade name.
CBI	Trade name Wingfil Part A
[_]	Is the trade name product a mixture? Circle the appropriate response.
	Vac
	1
	No 2
1.06 CBI	Certification The person who is responsible for the completion of this form must sign the certification statement below:
<u> </u>	"I hereby certify that, to the best of my knowledge and belief, all information entered on this form is complete and accorate."
	DON P. DE SHON
	NAME SIGNATURE 6/27/89 DATE SIGNED
	VICE PRESIDENT (415_) 632 8855 TITLE TITLE TELEPHONE NO.
()	(ark (V) this how if
	Mark (X) this box if you attach a continuation sheet.

EBI	with the required information on within the past 3 years, and thi for the time period specified in are required to complete section now required but not previously submissions along with your Sect	a CAIR R s informa the rule 1 of thi submitted	eporting Form for the tion is current, accur, then sign the certifs CAIR form and provid. Provide a copy of a	listed substance ate, and complete ication below. You e any information
	"I hereby certify that, to the binformation which I have not income to EPA within the past 3 years a period specified in the rule."	luded in	this CAIR Reporting Fo	rm has been submitted
	AM			·
	NAME		SIGNATURE	DATE SIGNED
	TITLE	()	TELEPHONE NO.	DATE OF PREVIOUS SUBMISSION
1.08	CBI Certification If you have certify that the following state those confidentiality claims whi	ements tru	ithfully and accurately	
[<u>]</u>]	"My company has taken measures and it will continue to take the been, reasonably ascertainable busing legitimate means (other that judicial or quasi-judicial proinformation is not publicly available of the substantial harm to	ese measur by other p han discor oceeding) ilable els	res; the information is persons (other than govery based on a showing without my company's of sewhere; and disclosure	s not, and has not vernment bodies) by g of special need in consent; the e of the information
	NA.			
	NAME		SIGNATURE	DATE SIGNED
	TITLE	(TELEPHONE NO.	<u>.</u>
	•			
[_]	Mark (X) this box if you attach	a continu	iation sheet.	

PART	B CORPORATE DATA
1.09	Facility Identification
CBI	Name [M]U]R]P]H]Y]']S]]T]I]R]E]]]SLLA]L]E]S]]]]]]]]
[_]	Address [7]7]2]7]]0]A]K]P]0]R]T] []3]7]]]]]]]]]]]]]]]]]]]
	[O]A]K]L]A]N]D]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_
	$\begin{bmatrix} \overline{C} \end{bmatrix} \overline{A} $ $\begin{bmatrix} \overline{9} \end{bmatrix} \overline{4} \end{bmatrix} \overline{6} \overline{1} \end{bmatrix} \overline{4}] - [\underline{9}] \overline{9}] \overline{9}] \overline{1}]$ State
	Dun & Bradstreet Number $[0]$
	EPA ID Number
	Employer ID Number
	Primary Standard Industrial Classification (SIC) Code
	Other SIC Code[_]_]_]
	Other SIC Code
1.10	Company Headquarters Identification
CBI	Name [T]h]e]]G]o]o]d]y]e]a]r]]T]i]r]e]&]R]u]b]b]e]r]]C
[_]	Address [1]1]4]4]
	[A]k]r]o]n]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
	$ \begin{array}{c c} [\overline{0}]_{\underline{H}} \\ \underline{State} \end{array} \qquad \begin{array}{c c} [\underline{4}] \underline{4} \\ \underline{3} \\ \underline{1} \\ \underline{1} \end{array}] \underline{6} \\ \underline{1} - [\overline{0}] \underline{0} \\ \underline{1} \\ \underline{0} \end{array}] \underline{1} $
	Dun & Bradstreet Number
	Employer ID Number
	· · · · · · · · · · · · · · · · · · ·
[]	Mark (X) this box if you attach a continuation sheet.

1.11	Parent Company Identification
(<u></u>]	Name [T]h e G o o d y e a r T i r e & R u b b e r C Address [1 1 4 4 E a s t M a r k e t S t r e e t
	Dun & Bradstreet Number
1.12	Technical Contact
CBI	Name (D)01N1-1P1-1D1E1-1S1H101N1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
[_]	Title [V] T C E D R E S I D E N T D D D D D D D D D
	Address $[7]7]2]7]0]A]K]P]0]R]T][]5]T].]]]]]]]]]]]]]]]]]]]]]$
	[O]A]K]L]A]N]D]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
	$\begin{bmatrix} \overline{C} \\ \overline{C} \end{bmatrix} \xrightarrow{A} \begin{bmatrix} \overline{9} \\ \overline{1} \end{bmatrix} \xrightarrow{A} \xrightarrow{A} \begin{bmatrix} \overline{9} \\ \overline{1} \end{bmatrix} \xrightarrow{A} \xrightarrow{A} \begin{bmatrix} \overline{9} \\ \overline{1} \end{bmatrix} $
	Telephone Number
1.13	This reporting year is from $\{ \begin{array}{ c c c c c c c c c c c c c c c c c c c$
	•
[_]	Hark (X) this box if you attach a continuation sheet.

1.14	Facility Acquired If you purchased this facility during the reporting year, provide the following information about the seller:
	NA
CBI	Name of Seller [_]_]_]_]_]_]_]_]_]_]_]]]]]]]]]]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]]]]]]]]]]]
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_] [_]_][_]_]_]_] State
	Employer ID Number
	Date of Sale
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	Telephone Number
1.15	NA Facility Sold If you sold this facility during the reporting year, provide the following information about the buyer:
<u>CBI</u>	Name of Buyer [_[]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]]]]]]]]]
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_] [_]_]-[_]-[_]_]_] State
	Employer ID Number
	Date of Purchase
	Contact Person []]]]]]]]]]]]]]]]]]
	Telephone Number
[_]	Mark (X) this box if you attach a continuation sheet.

[_]	Classification	Quantity (kg/yr)
	Manufactured	0.0
	Imported	. 0.0
	Processed (include quantity repackaged)	
	Of that quantity manufactured or imported, report that quantity:	
	In storage at the beginning of the reporting year	NA .
	For on-site use or processing	
	For direct commercial distribution (including export)	
	In storage at the end of the reporting year	
	Of that quantity processed, report that quantity:	7.36
	In storage at the beginning of the reporting year	7.30
	Processed as a reactant (chemical producer)	
	Processed as a formulation component (mixture producer)	
	Processed as an article component (article producer)	
	Repackaged (including export)	
	In storage at the end of the reporting year	

^[] Mark (X) this box if you attach a continuation sheet.

F	Component Name TDI Prepolymer Petroleum Hydrocarbon Poluene Diisocyanate	Supplier Name ARNCO ARNCO ARNCO	Average % Composition by Weight (specify precision,
F	Petroleum Hydrocarbon	ARNCO	40 ± 5.0 55 ± 5.0
			•
_ <u>T</u> 	oluene Diisocyanate	ARNCO	4.0 ± 0.5
			Total 100%
	·	1	
			·
	·		

[] Mark (X) this box if you attach a continuation sheet.

, 2.04 ,	or processed during the listed substance that your facility manufor processed during the 3 corporate fiscal years preceding the report descending order.	actured, impor rting year in	ted,
CBI			
[_]	Year ending		1 <u>7</u> 1
	Quantity manufactured	0.0	kg
	Quantity imported		_ _ kg
	Quantity processed	883.2	_ kg
	Year ending	(<u>1)2</u> (<u>8</u>	1 <u>6</u> 1
	Quantity manufactured	0.0	'kg
	Quantity imported		 kg
	Quantity processed		_ _ kg
	Year ending		1 <u>5</u> 1
	Quantity manufactured		kg
	Quantity imported		
	Quantity processed		
2.05 CBI	Specify the manner in which you manufactured the listed substance. appropriate process types.	Circle all	
<u></u>	NA		
·	Continuous process	·]
	Semicontinuous process	• • • • • • • • • • • • • • • • • • • •	2
	Batch process		
1_1	Mark (X) this box if you attach a continuation sheet.		

2.06 CBI	Specify the manner in wappropriate process type	hich you processed t	he listed substance.	Circle all
[_]	Continuous process	••••••	••••	
	Semicontinuous process			
	Patab manage	* * * * * * * * * * * * * * * * * * * *	••••••	2
	Batch process		• • • • • • • • • • • • • • • • • • • •	
2.07 CBI	State your facility's n substance. (If you are question.)	ame-plate capacity f a batch manufacture	or manufacturing or pr r or batch processor,	rocessing the listed do not answer this
	,	NA		
(<u> </u>)	Manufacturing capacity		••••••	kg/yr
	Processing capacity			kg/yr
2.08 CBI	If you intend to increa manufactured, imported, year, estimate the incr volume.	OL DIOCESSAN 31 351	* * * * * * * * * * * * * * * * * * *	
[<u>]</u>		Manufacturing Quantity (kg)	Importing Quantity (kg)	Processing Quantity (kg)
	Amount of increase		·	88.3
	Amount of decrease			
	•			
	••			
				•
]	Mark (X) this box if yo	u attach a continuat	ion sheet.	

.09	listed substance substance durin	argest volume manufacturing or processing procee, specify the number of days you manufactured g the reporting year. Also specify the average s type was operated. (If only one or two opera	or processed number of h	the listed
<u>CBI</u>			Days/Year	Average Hours/Day
	Process Type #1	(The process type involving the largest quantity of the listed substance.)		
	,	Manufactured		
	·	Processed	250	4
	Process Type #2	(The process type involving the 2nd largest quantity of the listed substance.)		- ,
	•	Manufactured	NA	
		Processed		
	Process Type #3	(The process type involving the 3rd largest quantity of the listed substance.)		
		Manufactured		
		Processed	NA	•
2.10 <u>CBI</u> []	State the maxim substance that chemical. Maximum daily i		ry of the is	sted f a bulk k
[_]	Mark (X) this b	ox if you attach a continuation sheet.		

etc.). NA				Source of
CAS No.	Chemical Name	Byproduct, Coproduct or Impurity ¹	Concentration (%) (specify \pm % precision)	products, products, Impuritie
	:			
***************************************	·		-	
B = Byproduc		e byproduct, copro	oduct, or impurit	y:
	t t	e byproduct, copro	oduct, or impurit	y:
B = Byproduc C = Coproduc	t t	e byproduct, copro	oduct, or impurit	y:
B = Byproduc C = Coproduc	t t	e byproduct, copro	oduct, or impurit	y:
B = Byproduc C = Coproduc	t t	e byproduct, copro	oduct, or impurit	y:
B = Byproduc C = Coproduc	t t	e byproduct, copro	oduct, or impurit	y:
B = Byproduc C = Coproduc	t t	e byproduct, copro	oduct, or impurit	y:
B = Byproduc C = Coproduc	t t	e byproduct, copro	oduct, or impurit	y:
B = Byproduc C = Coproduc	t t	e byproduct, copro	oduct, or impurit	y:
B = Byproduc C = Coproduc	t t	e byproduct, copro	oduct, or impurit	y:

2.12 <u>CBI</u>	Existing Product Types List all existing product types which you manufactured, imported, or processed using the listed substance during the reporting year. List the quantity of listed substance you use for each product type as a percentage of total volume of listed substance used during the reporting year. Also list the quantity of listed substance used captively on-site as a percentage of the value listed under column b., and the types of end-users for each product type. (Refer the instructions for further explanation and an example.)					
	a.	b.		c.	d,	
		% of Quantity Manufactured,		% of Quantity		
	Product Types ¹	Imported, or		Used Captively		
	_	Processed	-	On-Site	Type of End-Users ²	
	<u> </u>	100	_	100	I, CM	
						
			-		•	
			_			
			_			
	<pre>Use the following codes A = Solvent B = Synthetic reactant C = Catalyst/Initiator/ Sensitizer D = Inhibitor/Stabilize Antioxidant E = Analytical reagent F = Chelator/Coagulant/ G = Cleanser/Detergent/ H = Lubricant/Friction agent I = Surfactant/Emulsifi J = Flame retardant K = Coating/Binder/Adhe</pre> Use the following codes I = Industrial	Accelerator/ r/Scavenger/ Sequestrant Degreaser modifier/Antivear er	L = N = O = O = O = O = O = O = O = O = O	Moldable/Castable Plasticizer Dye/Pigment/Colo Photographic/Rep and additives Electrodeposition Fuel and fuel add Explosive chemical Fragrance/Flavor Pollution control Functional fluid Metal alloy and Rheological modification Other (specify)	cals and additives chemicals cl chemicals ds and additives additives ifier	
	CM = Commercial			: specify)		
1-1	Mark (X) this box if you			·		

2.13 <u>CBI</u> []	Expected Product Types import, or process usin corporate fiscal year. import, or process for substance used during tused captively on-site types of end-users for explanation and an exam	g the listed substar For each use, spece each use as a percent he reporting year. as a percentage of each product type.	nce ify ntag Als the	at any time after the quantity you e e of the total vol o list the quantity value listed under	your current expect to manufacture, lume of listed ty of listed substance r column b., and the
	a.	b.		c.	d.
	Product Types ¹	% of Quantity Manufactured, Imported, or Processed	_	% of Quantity Used Captively On-Site	Type of End-Users ²
	X	100	_	100	I, CM
			- -		
			_	*	
			_		
			_		
	<pre>1 Use the following code A = Solvent B = Synthetic reactant C = Catalyst/Initiator</pre>	/Accelerator/ er/Scavenger/ /Sequestrant /Degreaser modifier/Antivear ier esive and additives s to designate the CS = Cons	L = M = N = O = P = V = V = V = type	Moldable/Castable Plasticizer Dye/Pigment/Colo Photographic/Rep and additives Electrodepositio Fuel and fuel ad Explosive chemic Fragrance/Flavor Pollution contro Functional fluid Metal alloy and Rheological modi Other (specify)	als and additives chemicals l chemicals s and additives additives fier Article-Flat proof tire
[_]	Mark (X) this box if yo	u attach a continua	tion	sheet.	

a.	b.	c. Average %	d.
Product Type ¹	Final Product's Physical Form ²	Composition of Listed Substance in Final Product	Type of End-Users
X	H	< 0.01	I, CM
			•
Use the following c	odes to designate pro	oduct types:	+
A = Solvent		L = Moldable/Castabl	e/Rubber and add
<pre>B = Synthetic react C = Catalyst/Initia</pre>	ant tor/Accelerator/	M = Plasticizer	
Sensitizer	tor/neceletator/	<pre>N = Dye/Pigment/Colo 0 = Photographic/Rep</pre>	rant/Ink and add
D = Inhibitor/Stabi	lizer/Scavenger/	and additives	rographic chemic
Antioxidant	_	P = Electrodepositio	n/Plating chemic
E = Analytical reag	ent	Q = Fuel and fuel ad	ditives
F = Chelator/Coagul	ant/Sequestrant	<pre>R = Explosive chemic</pre>	als and additive
G = Cleanser/Deterg	ent/Degreaser ion modifier/Antiwear	S = Fragrance/Flavor	chemicals
agent	ion modifier/Antiwear		l chemicals
I = Surfactant/Emul	sifier	U = Functional fluid	
J = Flame retardant		<pre>V = Metal alloy and V = Rheological modi</pre>	
	Adhesive and additive	es X = Other (specify)	Article-Flat pro
² Use the following c	odes to designate the	final product's physi	cal form:
A = Gas	F2 = Cry	stalline solid	
B = Liquid	F3 = Gra	inules	
C = Aqueous solution		er solid	
D = Paste E = Slurry	G = Gel		•
F1 = Povder	H = Oth	er (specify) <u>Article</u>	
	odes to designate the	type of end-users:	
I = Industrial	CS = Con	sumer	
CM = Commercial	H = Oth	er (specify)	

2.15 CBI	Circl liste	le all applicable modes of transportation used to deliver ed substance to off-site customers.	bulk shipments o	f the
[_]	Truck	C		(1)
	Railo	car		_
		e, Vessel		
	Pipel	ine	• • • • • • • • • • • • • • • • • • • •	4
	Plane		• • • • • • • • • • • • • • • • • • • •	5
	0ther	(specify)		6
				-
2.16 <u>CBI</u>	of er	omer Use Estimate the quantity of the listed substance repared by your customers during the reporting year for used use listed (i-iv).	used by your cusse under each car	stomers tegory
	Categ	gory of End Use		
	i.	Industrial Products		
		Chemical or mixture		kg/yr
	•	Article	794.9	kg/yr
	ii.	Commercial Products		
		Chemical or mixture		kg/yr
		Article	88.3	kg/yr
	iii.	Consumer Products		
		Chemical or mixture		kg/yr
		Article		kg/yr
	iv.	<u>Other</u>		
		Distribution (excluding export)		kg/yr
		Export		
		Quantity of substance consumed as reactant		
		Unknown customer uses		

•	. SECTION 3 PROCESSOR RAW MATERIAL IDEN	TIFICATION	
PART	A GENERAL DATA		
3.01 <u>CBI</u>	Specify the quantity purchased and the average price for each major source of supply listed. Product trade The average price is the market value of the product substance.		
	Source of Supply	Quantity (kg)	Average Price (\$/kg)
	The listed substance was manufactured on-site.		
	The listed substance was transferred from a different company site.	·	• ,
	The listed substance was purchased directly from a manufacturer or importer.		· · · · · · · · · · · · · · · · · · ·
	The listed substance was purchased from a distributor or repackager.		
	The listed substance was purchased from a mixture producer.	883.2	8.00 TOTAL
3.02 CBI	Circle all applicable modes of transportation used to your facility.	deliver the list	
[_]	Truck		G
	Railcar		
	Barge, Vessel		
	Pipeline		
	Plane		
	Other (specify)		

[] Mark (X) this box if you attach a continuation sheet.

<u>I</u>	. Circle all applicable containers used to transport the listed substance to y facility.	
_,	Bags	٠.,
	Boxes	
	Free standing tank cylinders	
	Tank rail cars	
	Hopper cars	
	Tank trucks	
	Hopper trucks	
	Drums	
	Pipeline	
	Other (specify)	
b.	If the listed substance is transported in pressurized tank cylinders, tank r cars, or tank trucks, state the pressure of the tanks.	ai
	m 1 3	
	lank cylinders	u
	Tank cylinders Tank rail cars	
	Tank rail cars	. π
	Tank rail cars	
	Tank rail cars	
	Tank rail cars	
	Tank rail cars	. an
	Tank rail cars	
	Tank rail cars	. π

	ition by weight of the	form of a mixture, list the) or manufacturer(s), an es he listed substance in the orting year.	
Trade Name	Supplier or Manufacturer	Average % Composition by Veight (specify ± % precision)	Amount Processed (kg/yr)
Wingfil Part A	ARNCO	4.0 ± 0.5	22000
			•
		,	
	•		

PARŢ	C RAV MATERIAL VOLUME							
3.05 CBI	State the quantity of the listed substance used as a raw material during the reporting year in the form of a class I chemical, class II chemical, or polymer, and the percent composition, by weight, of the listed substance.							
		Quantity Used(kg/yr)	<pre>% Composition by Weight of Listed Sub- stance in Raw Material (specify ± % precision)</pre>					
	Class I chemical	<u>883.Z</u>	4.0 ± 0.5					
	Class II chemical							
	Polymer							
		·						

 $[\underline{ }]$ Mark (X) this box if you attach a continuation sheet.

	SECT	ION 4 PHYSICAL/CHEMI	CAL PROPERTIES	
Gener	al Instructions:	•		
	u are reporting on a mixt t are inappropriate to mi			stions in Section
notic	uestions 4.06-4.15, if yo e that addresses the info mile in lieu of answering	rmation requested, yo	u may submit a copy or	el, MSDS, or other reasonable
PART	A PHYSICAL/CHEMICAL DATA	SUMMARY		
4.01 <u>CBI</u>	Specify the percent puri substance as it is manuf substance in the final p import the substance, or	actured, imported, or roduct form for manuf	processed. Measure the facturing activities, at	ne purity of the
`'		Manufacture	Import	Process
	Technical grade #1	% purity	% purity NA-	mixture % purity
	Technical grade #2	% purity	% purity	% purity
	Technical grade #3	% purity	% purity	% purity
	¹ Major = Greatest quanti		ce manufactured, importe	
4.02	Submit your most recentl substance, and for every an MSDS that you develop version. Indicate wheth appropriate response.	formulation contains ed and an MSDS develo	ing the listed substance oped by a different sou	e. If you possess rce, submit your
	Yes	•••••	• • • • • • • • • • • • • • • • • • • •	
	No	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
		,		
	Indicate whether the MSD	S was developed by yo	our company or by a dif	ferent source.
	Indicate whether the MSE		•	

 $[\underline{ }]$ Mark (X) this box if you attach a continuation sheet.



MATERIAL SAFETY DATA SHEET

REVISION DATE June 4 . 1986

I. GENERAL INFORMATION

PRODUCT NAME : WING-FIL COMPONENT "A" CHEHICAL NAME

: TDI Prepolymer plus Petroleum Hydrocarbon CHEHICAL FAHILY

: Isocyanate Prepolymer and Petroleum Hydrocarbon FORHULA

: Proprietary DOT HAZARD CLASS : UN2078 (TDI)

HANUFACTURER ' : ARNCO, 5141 Firestone Place, South Gate, CA 90280-3570

Phone No: (213)567-1378

CHEHTREC Phone No: (800)424-9300 District of Columbia: (202)483-7616

II. INGREDIENTS

Components	TLV Point Point of OF			Vapor Press. mm Hg	Vapor Dens. (Air=1)	Flammable Limit LEL UEL
TDI Prepolymer	0.02ppm 0.2mg/m3	Not Estab.	Not Estab.	0.02 @77°F.	6.0	Not Estab.
Petroleum Hydrocarbon	O.2mg/m ³ TWA-ACGIH	>300	>550	<1.0 €68°F.	<0.1	No Data Available

III. PHYSICAL DATA

BOILING POINT (°F) : 464

VAPOR PRESSURE (mm Hg) : SEE SECTION II VAPOR DENSITY (Air=1) : SEE SECTION II

SOLUBILITY IN WATER, \$: Insoluble. Reacts with water to liberate

CO₂ gas.

APPEARANCE & ODOR : Dark brown liquid. Sharp pungent odor. SPECIFIC GRAVITY (H20=1)

: 1.01 * VOLATILE BY VOLUME

: Negligible EVAPORATION RATE (Ether=1): Not Established

IV. FIRE & EXPLOSION HAZARD DATA

FLASH POINT (OF)

: 320

FLAHHABLE LIHITS

.: Not Established

EXTINGUISHING HEDIA

: Dry chemical, chemical foam, carbon dioxide

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear full emergency equipment with self-contained pressure-demand breathing apparatus. Use water to cool fire-exposed containers. Eliminate all sources of ignition.

UNUSUAL FIRE & EXPLOSION HAZARDS: During a fire, toxic gases are genererated. Closed containers may explode from extreme heat or from water contamination. DO NOT reseal water-contaminated containers, as pressure buildup up may cause violent rupture of the container.

V. HEALTH HAZARD DATA

THRESHOLD LIHIT VALUE: 0.02 ppm; 0.2 mg/m3

SYMPTOMS OF EXPOSURE:

INHALATION: Hay cause dizziness and nausea. Irritation of the upper and lower respiratory tract. Some individuals may develop isocyante hypersensitization and must avoid further exposure to even low isocyanate levels. Inhalation of mists may present a cancer hazard a Sinusitis, brochitis, asthma, and impaired wentilatory capacity can occur in some individuals.

INGESTION: Irritation and corrosive action in the mouth, stomach and digestive tract. Possibly liver toxicity. Aspiration into the lungs can cause chemical pneumonitis which can be fatal.

EYES: Liquid, vapors, or mist can cause sever irritation, redness, tearing, blurred vision and possibly irreversible damage to the eye.

SKIN: Irritation and allergic sensitivity may occur for some individuals, producing reddening, swelling or blistering, and skin sensitization, possibly resulting in dermatitis. This product contains petroleum oils similar to those catogarized by the International Agency for Research on Cancer (IARC) as causing skin cancer in mice after prolonged and repeated contact. Any potential hazard can be minimized by using recommended protective equipment to avoid skin contact and by washing thoroughly after handling.

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V. HEALTH HAZARD DATA (continued)

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing unspecific bron-chial hypersensitivity and, potentially, any allergies.

PRIMARY ROUTES OF ENTRY: Inhalation and skin contact.

EHERGENCY FIRST AID:

INHALATION: Remove victim to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, apply artificial respiration, and get medical attention immediately. NOTE TO PHYSICIAN: Treat symptomatically: bronchodilators; oxygen.

INGESTION: DO NOT INDUCE VOMITING. Aspiration can be fatal. Give a glass of milk or water, keep patient quiet and warm, and get prompt medical attention.

EYES: Flush immediately with water for at least 15 minutes, occasionally lifting the eyelid, and get prompt medical attention.

SKIN: Remove contaminated clothing and launder before reuse. Wash affected skin with soap and water. Consult a physician if swelling or reddening

VI. REACTIVITY DATA

STABILITY: Stable under normal, recommended storage conditions.

CONDITIONS TO AVOID: Open flame and storage temperatures above 120°F

INCOMPATIBILITY: Materials to avoid are water, alcohols, ammonia, amines, and alkalis. Contaminated containers should be left vented and be moved to a safe area for neutralization and proper disposal.

HAZARDOUS POLYMERIZATION: Hay occur.

CONDITIONS TO AVOID: Exposure to high temperature, or resealing of containers contaminated with materials listed under INCOMPATIBILITY (materials

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and dioxide, nitrogen oxides, sulfur oxides, unidentified organic compounds, and traces of hydrogen cyanide (HCN).

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Page 3 of 4

nanontal contonent "A"

VII. ENVIRONMENTAL PROTECTION PROCEDURES

SPILL RESPONSE: Evacuate and ventilate the area. Eliminate all sources of ignition. Respiratory protection must be worn during cleanup. Cover the spill with sawdust, vermiculite, or other absorbent material. Scoop and place in open container and remove to well ventilated area to be treated with a decontamination solution made up of 20% Tergitol THN-10 (Union Carbide) and 80% water; or 5% concentrated ammonia, 2% detergent, and 93% water. Leave the container open for 24-48 hours. Wash down the spill area with decontamination solution. For major spills call CHEMTREC: (800)

WASTE DISPOSAL HETHOD Decontaminated waste must be disposed of in accordance with Federal, State, and local environmental control regulations. It is your duty to comply with the Clean Air Act, Clean Water Act, and Resources Conservation and Recovery Act.

VIII. SPECIAL PROTECTION INFORMATION

EYE PROTECTION: Chemical workers goggles or full-face shield. Contact lenses should not be worn in or near work area.

RESPIRATORY PROTECTION: HSHA/NIOSH approved positive-pressure air-supplied respirator with full-face shield. Organic vapor filters are not effective against TDI vapor. The vapor pressure of TDI is such that at normal temperatures, vapor concentration in the air will exceed the TLV of 0.02 ppm.

SKIN PROTECTION: Impervious, chemical resistant (natural rubber) gloves, arm covers, aprons or coveralls, boots and caps.

VENTILATION RECOMMENDED: General mechanical ventilation and local exhaust, to maintain vapor concentration below the TLV.

OTHER PROTECTION: Safety showers and eye wash stations must be easily accessible. Provide a dry nitrogen blanket in bulk storage tanks.

IX. SPECIAL PRECAUTIONS

HYGIENIC PRACTICES IN HANDLING & STORAGE: Store below 100°F, preferably below 90°F, in tightly-closed containers to prevent atmospheric moisture contamination. DO NOT reseal if contamination is suspected. DO NOT store near open flame or high heat.

Wear protective equipment to prevent eye and skin contact. DO NOT breath vapors. Wash hands before eating or smoking.

Since emptied containers retain product residues (vapor or liquid), all hazard precautions given in this MSDS must be observed. For proper container disposal, fill with water and allow to stand unsealed for at least 48 hours then dospose of in accordance with Federal, State and local environmental control regulations.

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4.03	Submit a copy or reasonable facsimile of any hazard information (other than an MSDS) that is provided to your customers/users regarding the listed substance or any formulation containing the listed substance. Indicate whether this information has been submitted by circling the appropriate response.
	Yes 1
	No 2
4.04	For each activity that uses the listed substance, circle all the applicable number(s) corresponding to each physical state of the listed substance during the activity
<u>CBI</u>	listed. Physical states for importing and processing activities are determined at the time you import or begin to process the listed substance. Physical states for manufacturing, storage, disposal and transport activities are determined using the final state of the product.
1_1	
	mi i i i a

	Physical State							
Activity	Solid	Slurry	Liquid	Liquified Gas	Gas			
Manufacture	1	2	3	4	5			
Import	1	2	3	4	5			
Process	1	2	3	4	5			
Store	1	2	3	4	5			
Dispose	1	2	3	4	5			
Transport		2	3	4	5			

[_] Mark (X) this box if you attach a continuation sheet.

 particles importing listed su	g activities, indicage distribution of to the second seco	ne listed subs meter. Measur ivities at the he physical st	tance by e the ph time yo ate and	activity ysical st ou import particle	o Do nate and or beging sizes f	ot includ particle n to proc	e sizes fo ess the
Physical State		Manufacture	Import	Process	Store	Dispose	Transpor
Dust	<1 micron			NA			*****
	1 to <5 microns			NA			
	5 to <10 microns			NA	,		
						···	. •
Powder	<1 micron			NA	•		1
	1 to <5 microns			NA			
	5 to <10 microns			A.M.			
Fiber	<l micron<="" td=""><td></td><td></td><td>NA</td><td></td><td></td><td></td></l>			NA			
	1 to <5 microns			NA			
	5 to <10 microns			NA			•
Aerosol	<1 micron	-		NA			
	1 to <5 microns			NA	· · · · · · · · · · · · · · · · · · ·		
	5 to <10 microns			NA_			
	•						
		•					

SECTION S ENVIRONMENTAL FA	SECTION	5	ENVIRONMENTAL	FATE
----------------------------	---------	---	---------------	------

01 7-	NA-Mix		
	dicate the rate constants for the following transfo	rmation processes.	
а.	Photolysis:		
	Absorption spectrum coefficient (peak)		
	Reaction quantum yield, 6		
	Direct photolysis rate constant, k _p , at	1/hr	latitu
ъ.	Oxidation constants at 25°C:	٠	
	For ¹ 0 ₂ (singlet oxygen), k _{ox}		1/M
	For RO ₂ (peroxy radical), k _{ox}		1/M
с.	Five-day biochemical oxygen demand, BOD ₅		mg/
d.	Biotransformation rate constant:		
	For bacterial transformation in water, $k_b \dots$		1/h
	Specify culture		
e.	Hydrolysis rate constants:		
	For base-promoted process, k _B		1/M
	For acid-promoted process, k,		
	For neutral process, k _K		 1/h
f.	Chemical reduction rate (specify conditions)		
g.	Other (such as spontaneous degradation)		

5 02		Specify the half-life of the listed substance in the following media.							
3.02	α.	Specify the harr-	rire or (ne	listed sub	stance in the fo NA-Mixture	llowing med	lia.		
		<u>Media</u>			Half-life (specify uni	ts)		
		Groundwater		_					
		Atmosphere							
		Surface water							
		Soil				:			
	b.	Identify the liste life greater than	ed substance 24 hours.	e's known transformation products that have a half-					
		CAS No.		Name	Half-life (specify un		<u> Media</u>		
						in _			
						in _			
						in _			
			•			in _			
5.03	NA-Mixture Specify the octanol-water partition coefficient, K _{ou} at 2								
		hod of calculation					at 25°C		
			or determin	acion					
5.04	Spec	cify the soil-water	nartition	coefficien	NA-Mixture		0500		
		l type							
				* * * * * * * * * * * * * * * * * * * *					
5.05	Spec	cify the organic ca	rbon-water	partition	NA-Mixture		at 25°C		
5.06	Spec	cify the Henry's La	v Constant,	Н	NA-Mixture	- The state of the	atm-m³/mole		
	Mark	(X) this box if y	ou attach a	continuet	on sheet				

Bioconcentration Factor	NA-Mixt Species	ure	<u>Test</u> ¹
			····
¹ Use the following codes to do	esignate the type of	test:	
F = Flowthrough S = Static		÷	
S = Static			•
	e e		
		• ·	

6.04 <u>CBI</u>	For each market listed below, state the histed substance sold or transferr	e quantity sold and the tot ed in bulk during the repor	tal sales value of ting year.
[_]		. \	
	Market \		Total Sales Value (\$/yr)
\	Retail sales		<u> </u>
	Distribution Wholesalers		\ \ \
	Distribution - Retailers		
	Intra-company transfer		
/	Repackagers		
	hixture producers \	\ <u></u>	
	Ardicle producers		
	Other chemical manufacturers or processors		,
	Exporters		
	Other (specify)		
			\ \
6.05 CBI	Substitutes List all known commerci for the listed substance and state the feasible substitute is one which is ec in your current operation, and which r performance in its end uses.	COST of each substitute.	A commercially
()	Substitute	-	Cost (\$/kg)
	No substitutes currently known		<u>0030 (37 kg)</u>
			10.00
[_]	Mark (X) this box if you attach a cont	inuation sheet.	

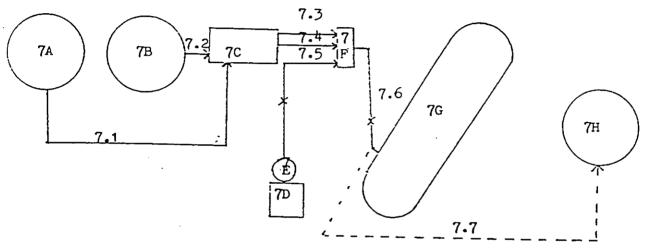
General Instructions:

For questions 7.04-7.06, provide a separate response for each process block flow diagram provided in questions 7.01, 7.02, and 7.03. Identify the process type from which the

PART A MANUFACTURING AND PROCESSING PROCESS TYPE DESCRIPTION

7.01 In accordance with the instructions, provide a process block flow diagram showing the major (greatest volume) process type involving the listed substance.

[] Process type Batch - Polyurethane Polymerization



7A = TDI Prepolymer

7B = Amine Solution

7C = Metering Pump

7D = Isopropyl Alcohol Cleaning Solution

7E = Cleaning Solution Pump 7F = Components Mixing Head

7G = Tire Being Filled Through Valve Stem

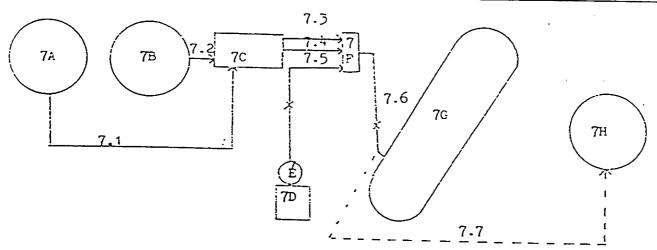
7H = Clean-out Solution Drum

 $[\]begin{bmatrix} - \end{bmatrix}$ Mark (X) this box if you attach a continuation sheet.

7.03 In accordance with the instructions, provide a process block flow diagram showing all process emission streams and emission points that contain the listed substance and which, if combined, would total at least 90 percent of all facility emissions if not treated before emission into the environment. If all such emissions are released from one process type, provide a process block flow diagram using the instructions type, provide a process block flow diagram from more than one process type, provide a process block flow diagram showing each process type as a separate

CBI

Process type Batch - Polyurethane Polymerization



7A = TDI Prepolymer

7B = Amine Solution

7C = Metering Pump

7D = Isopropyl Alcohol Cleaning Solution

7E = Cleaning Solution Pump

7F = Components Mixing Head

7G = Tire Being Filled Through Valve Stem

7H = Clean-out Solution Drum

 $^[\]$ Hark (X) this box if you attach a continuation sheet.

1	Process type Batch- Polyurethane Polymerization								
	Unit Operation ID Number 7A 7B	Typical EquipmentTypeDrumDrum	Operating Temperature Range (°C) Ambient Ambient	Operating Pressure Range (mm Hg) Atmospheric Atmospheric	Vessel Composition Steel Steel				
	7C	Metering Pump	Ambient	Atmospheric	Stainless Steel				
	7D	5 Gallon Can	Ambient	Atmospheric	Steel				
	7E	Pump	Ambient	Atmospheric	Steel				
	<u>7</u> F	Mixing Head	Ambient	Atmospheric	Stainless Steel				
	<u>7</u> G	Tire	Ambient	Atmospheric	Vul. Rubbe:				
	_7H	Drum	Ambient	<u>Atmospheri</u> c	Steel				
			,						
				-					

7.105	Describe each process stream identified in your process block flow diagram(s). If process block flow diagram is provided for more than one process type, photocopy the question and complete it separately for each process type.						
CBI							
[_]	Process type Batch - Polyurethane Polymerization						
	Process Stream ID Code	Process Stream Description	Physical State ¹	Stream Flow (kg/yr)			
	7.1	TDI Prepolymer	OL	22000*			
	7.3	TDI Prepolymer	OL	22000*			
	7.6	Polymerizing Polyurethane	OL	44000*			
				,			
	<u> </u>	· .	-				
	GC = Gas (cond GU = Gas (unco SO = Solid SY = Sludge or AL = Aqueous 1 OL = Organic 1	liquid	and pressure) e and pressure)				
* I	•	on 10 drums per month, and a 1/m = 184 KG of total weight.	l ratio of Wingfil A to	В			
[_]	Mark (X) this b	oox if you attach a continuation	sheet.				

	this quest	ze each process stream ide ss block flow diagram is p ion and complete it separa	provided for mor stelv for each r	re than one pro-	cess type, photocopy
CBI	instructio	ns for further explanation	n and an example olyurethane Pol	e.)	
	a.	b.	с.	d.	e.
	Process Stream ID Code	Known Compounds	Concen- trations ^{2,3} (% or ppm)	Other Expected Compounds	Estimated Concentrations(% or ppm)
	7.1	TDI Prepolymer	40 ± 5.0 (E) (W)	NA	NA NA
		Petroleum Hydrocarbon	55 ± 5.0 (E) (W)	NA .	NA
		Toluene Diisocyanate	4.0 ± 0.5 (E) (W)	NA	NA
	7.3	TDI Prepolymer	40 ± 5.0 (E) (W)	NA	NA
		Petroleum Hydrocarbon	55, ± 5.0	NA	NA
		Toluene Diisocyanate	4.0 ± 0.5 (E) (W) -	NA	NA .
	7.6	Polyurethane	(是) ⁻ (報)	NA	NA NA
		Toluene Diisocyanate	(£) (w)	NA	NA
		Amine	(£) (w)	NA .	NA_
7.06	continued	belov			
	Mark (X)	his box if you attach a co	ontinuation cha	e 1	

7.06 (continued)

¹For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column b. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Additive Package Number	Components of Additive Package	Concentration (% or ppm)
1		
		-
2		
3		
4	-	
5		

		<u> </u>
2		
Use the following codes t	to designate how the concentrati	on vas determined:
A = Analytical result E = Engineering judgement	:/calculation	
³ Use the following codes t	o designate how the concentrati	on was measured:
V = Volume V = Veight		

8.01 In accordance with the instructions, provide a residual treatment block flow diagram which describes the treatment process used for residuals identified in question 7.03 CBI							low diagram estion 7.01
_]	Process	type	• •	Batch - Polyure	thane Polymer	ization	
			NA				
					·		
							•
							\$
						•	
			•				

8.05 CBI	Characterize each process stream identified in your residual treatment block flow diagram(s). If a residual treatment block flow diagram is provided for more than one process type, photocopy this question and complete it separately for each process type. (Refer to the instructions for further explanation and an example.)									
[_]	Process type Batch - Polyurethane Polymerization									
	a.	b.	NA C.	NA d. e.		e. f.				
	Stream ID Code	Type of Hazardous Vaste	Physical State of Residual ²	Known Compounds ³	Concentra- tions (% or ppm) ^{4,5,6}	Other Expected Compounds	Estimated Concen- trations (% or ppm)			
			· · · · · · · · · · · · · · · · · · ·							
 8.05	continu	ed below								

```
8.05 (continued)
```

1 Use the following codes to designate the type of hazardous waste:

I = Ignitable

C = Corrosive

R = Reactive

E = EP toxic

T = Toxic

H = Acutely hazardous

²Use the following codes to designate the physical state of the residual:

GC = Gas (condensible at ambient temperature and pressure)

GU = Gas (uncondensible at ambient temperature and pressure)

SO = Solid

SY = Sludge or slurry

AL = Aqueous liquid

OL = Organic liquid

IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene)

8.05 continued below

8.05	cont	inue	d)
------	------	------	----

³For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column d. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Additive	Compo	nents of	•	Concentrations
Package Number	Additi	ve Package		(% or ppm)
1				
			and the second	
			-	
	***			·
2				•
		<u> </u>		
3				

• * ·				
4				· · · · · ·
		•		
	••• <u> </u>			
·				
E				
5	-			
	-			
		N		***************************************
4,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
use the following	g codes to designate	how the concentra	ition was d	etermined:
A = Analytical r	seul t			
E = Engineering	judgement/calculation	1		
•			•	
05 continued belov	•			
os continued perov				•
- Wark (V) this bar	if you attach	innetian abase		
_ Mark (X) this box	if you attach a cont	inuation sheet.		
		56		
		2.0		

8.05 (conti	nue	d)
--------	-------	-----	----

⁵Use the following codes to designate how the concentration was measured:

V = Volume

W = Weight

⁶Specify the analytical test methods used and their detection limits in the table below. Assign a code to each test method used and list those codes in column e.

Code	<u>Method</u>	Detection Limit (± ug/l)
1		•
2		
3		
4		
5		
6		

8.06	Characterize each process stream idential diagram(s). If a residual treatment block
	process type, photocopy this question and
	type. (Refer to the instructions for fur

'n your residual treatment block flow diagram is provided for more than one it separately for each process ion and an example.)

_}	Process	type	• • • • • • • • • • • • • • • • • • • •			tion		
	а.	b.	C. NA	d.			f. Costs for	g.
	Stream ID Code	Waste Description Code	Management Method Code	Residual Quantities (kg/yr)	of . On-Sit	uent ual (%) Off-Site	Off-Site Management (per kg)	Changes i Managemen Methods
			-			:	· · ·	
	,							:
			1016-74			*************************************		
			· · · · · · · · · · · · · · · · · · ·					<u></u>

							· .	
				•				
				4-14-		****		
	_	e codes prov e codes prov						

8.22	(by capacity) i	nkinerators tha	t are used on	-site to burba t	n of the three lather residuals ide	argest entified in		
CBI /	your process bl	ock or residual	treatment bl	ock flow diag	am(s).			
[_]		Combustion Chamber Temperature		Location of Temperature Monitor	In Co	ence Time mbustion (seconds)		
	Incinerator			mary Seconda	_ \	Secondary		
	1							
	2							
	3							
	Indicate by circli	if Office of So	lid Waste sur ate response.	vey has been s	ubmitted in lied	of response		
	Yes		\		·····			
	No	/				2		
8.23 <u>CBI</u> [_]	are used on-sit treatment block	te to burn the restriction of the first term of	esiduals ider). A Air Polluti	tified in your	Emissio	r residual s of ns Data		
	Incinerator		Control Devi	.ce ¹	Avai	lable		
	1							
	2							
	Indicate if Office of Solid Waste survey has been submitted in lieu of response by circling the appropriate response.							
	Yes		• • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		1		
					• • • • • • • • • • • • • • • • • • • •			
		ving codes to de			control device:			
	E = Electrosta	(include type of atic precipitato ecify)	r	•				
<u></u> 1	Mark (X) this t	oox if you attac	h a continua	tion sheet.				

PART A EMPLOYMENT AND POTENTIAL EXPOSURE PROFILE

9.01 <u>CBI</u>	Mark (X) the appropriate coluthe following data elements felement the year in which you records for that data element explanation and an example.)	or hourly a began main	and salaried ntaining rec	workers. Specify ords and the number	for each data r of years the
[_]	_	Hourly	Salaried	: Year in Which Data Collection	Number of Years Records
	Data Element	<u>Workers</u>	Workers	Began	Are Maintained
	Date of hire		<u> </u>	12-27-87	14 FARS
	Age at hire	*	<u> </u>		AFTERTERM
	Work history of individual before employment at your facility			V	•
	Sex	*	_		
	Race	*	7		
	Job titles	_>_	+	V	
	Start date for each job title		7	· ·	
	End date for each job title		_+_		
	Work area industrial hygiene monitoring data				
	Personal employee monitoring data		-		
	Employee medical history	$\overline{\chi}$		<u> </u>	
	Employee smoking history	-			
	Accident history				
	Retirement date		<u> </u>		
	Termination date	*			Park Marco Commission - Completing of the Park (Marco Commission)
	Vital status of retirees	•			
	Cause of death data				
[_]	Mark (X) this box if you atta	ach a conti	nuation she	et.	

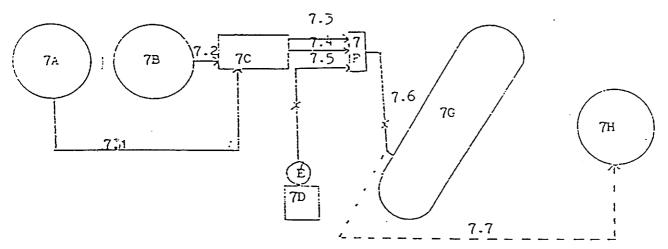
0.02 CBI	In accordance with the in which you engage.	e instructions, complete	the following ta	ble for ea	ach activity
	a.	b.	c.	d.	e.
	Activity	Process Category	Yearly Quantity (kg)	Total Workers	Total Worker-Hour
	Manufacture of the listed substance	Enclosed			
	risted substance	Controlled Release			
		0pen			
	On-site use as	Enclosed	993. Z	1	1000
	reactant	Controlled Release			•
		0pen			,
	On-site use as	Enclosed		-	
	nonreactant	Controlled Release			
		0pen			
	On-site preparation	Enclosed			
	of products	Controlled Release			
	•	0pen		· ·	
		•			
				•	
		•			·

9.03	Provide a descriptive j encompasses workers who listed substance.	job title for each labor category at your facility that one may potentially come in contact with or be exposed to the
<u>CBI</u>	listed substance.	
[_]		
	Labor Category	Descriptive Job Title
	A	FLEET SERVICE SPECIALIST/TIRE SERVICE PEOPLE
	В	
	С	
	D	·
	E	•
	F	
	G	
	н	
	I	
	J	
		••
		
[_]	Mark (X) this box if yo	u attach a continuation sheet.

9.04 In accordance with the instructions, provide your process block flow diagram(s) and indicate associated work areas.

CBI

Process type <u>Batch - Polyurethane Polymerization</u>



7A = TDI Prepolymer

7B = Amine Solution

7C = Metering Pump

7D = Isopropyl Alcohol Cleaning Solution

7E = Cleaning Solution Pump

7F = Components Mixing Head

7G = Tire Being Filled Through Valve Stem

7H = Clean-out Solution Drum

Note: All above is considered one work area

{ _ }	Mark	(X)	this	pox	if	you	attach	а	continuation	sheet.
-------	------	-----	------	-----	----	-----	--------	---	--------------	--------

05 I	additional areas not	work area(s) shown in question 9.04 that encompass workers who in contact with or be exposed to the listed substance. Add any shown in the process block flow diagram in question 7.01 or squestion and complete it separately for each process type.
_]	Process type	Batch - Polyurethane Polymerization
	Work Area ID .	Description of Work Areas and Worker Activities Pumping TDI/Amine solutions to mixer, filling tires through
	1	valve stem with polyurethane, and cleaning hosing with alcohol
	2	
	3	
	4	
	5	•
	. 6	
	7	
	8	
	9	
	10	
	10	
		•
		-
		•
	·	

9.06 CBI	Complete the fo each labor cate come in contact and complete it	gory at your with or be e	facility that exposed to the	encomp listed	asses vorkei substance.	s who may pot Photocopy th	entiallv
[_]	Process type		Batch - Poly	ırethane	e Polymeriza	tion	
	Work area	• • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • •	• • • • •		1
	Labor	umber of Workers Exposed	Mode of Exposur (e.g., dire skin contac	ct	Physical State of Listed Substance	Average Length of Exposure Per Day ²	Number of Days per Year Exposed
							•
	Use the follow the point of e	ing codes to xposure:	designate the	physic	al state of	the listed su	bstance at
	temperat GU = Gas (unc temperat	ure and press ondensible at ure and press	sure) : ambient sure;	AL = OL =	Sludge or s Aqueous liq Organic liq Immiscible (specify ph 90% water,	uid uid liquid	
	² Use the follow	temperature and pressure) Gas (uncondensible at ambie temperature and pressure; includes fumes, vapors, etc	designate ave	rage le	ength of exp	osure per day:	
	A = 15 minutes	or less an 15 minutes 1 hour an one hour,	s, but not	D = 0 E = 0	Greater than exceeding 4	2 hours, but hours 4 hours, but hours	not
(_1	Mark (X) this b	ox if you att	tach a continu	ation s	sheet.	•	

9.07 CBI	Weighted Average (T	gory represented in question 9.06, WA) exposure levels and the 15-min tion and complete it separately fo	nute peak exposure levels.
	Process type	Batch - Polyurethane Polymer	rization
		• • • • • • • • • • • • • • • • • • • •	1
	Labor Category	8-hour TWA Exposure Level (ppm, mg/m³, other-specify)	15-Minute Peak Exposure Leve (ppm, mg/m³, other-specify)
	*	#	*
			,
			3
	**		
	· · · · · · · · · · · · · · · · · · ·		
*	tests have been cond	3	
NO	tests have been cond	nuctea	
		·	

BI	No monitor worker exposure available							
1		Work	Testing Frequency	Number of Samples	Who ,	Analyzed In-House	Number of Years Records	
	Sample/Test	Area ID	(per year)	(per test)	Samples'	<u>(Y/N)</u>	Maintained	
	Personal breathing zone							
	General work area (air)					•• ••		
	Vipe samples			-				
	Adhesive patches							
	Blood samples			• •				
	Urine samples							
	Respiratory samples					4.25.00		
	Allergy tests	*****						
	Other (specify)							
	Other (specify)							
	Other (specify)							
				-				
	Use the following of A = Plant industria	al hygien		no takes the	e monitori	ng samples	•	
	B = Insurance carr C = OSHA consultan D = Other (specify	t						

[_]	Sample Type	Sampling and Analytical Methodology						
		NA		· · · · · · · · · · · · · · · · · · ·				
				·····				
								
				,				
9.10	If you conduct perso specify the followin	onal and/or ambient og information for	t air monitoring for each equipment type	the listed se used.	ubstance, •			
CBI		Do not conduct		Averaging				
[_]	Equipment Type ¹	Detection Limit ²	Manufacturer	Time (hr)	Model Number			
	¹ Use the following c		2.6					
	<pre>A = Passive dosimet B = Detector tube C = Charcoal filtra D = Other (specify)</pre>	er ition tube with pur						
	Use the following of		ambient air monito	ring equipment	types:			
	E = Stationary moni F = Stationary moni G = Stationary moni H = Mobile monitori I = Other (specify)	tors located with tors located at plans equipment (spec	in facility lant boundary					
	² Use the following o							
	<pre>A = ppm B = Fibers/cubic ce C = Micrograms/cubi</pre>	entimeter (f/cc) c meter (µ/m³)						

Test Description Test Description	<u>BI</u>	•		No	+os+s -s-			P=-			
	_1		Test Desci		tests con	auctea	(veek	ly, mont	equency hly, year	ly, etc	.)
											
									•		
											▼
									`		
			·								
					•						

I	to the listed substance. Pho process type and work area.	tocopy this q	use to reduce or e uestion and complet one		
_1	Process type	Batch - 1	Polyurethane Polyme	rization	
	Work area	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	1	
	Engineering Controls	Used (Y/N)	Year Installed	Upgraded (Y/N)	Year Upgradeo
	Ventilation:		•		
	Local exhaust				•
	General dilution		<u></u>		
	Other (specify)				
	Vessel emission controls				
	Mechanical loading or packaging equipment		·		
	Other (specify)				
		·			
*,	Not aware that any engineering	controls are	needed		

•	pe		 Polymerizat	ion 1		
	Equipment or			Reduct	ion in V e Per Ye	
			 	ŧ	.	
					·	
Conclusion	······································		 			
	*					
	No Mod	lifications				

		· · · · · · · · · · · · · · · · · · ·		
PART	D PERSONAL PROTECTI	IVE AND SAFETY EQUIPMENT		
9.14 <u>CBI</u>	in each work area i	nal protective and safety equi in order to reduce or eliminat opy this question and complete	e their exposure	to the listed
[_]	Process type	Batch - Polyurethane	Polymerization	
	Work area	• • • • • • • • • • • • • • • • • • • •		1
		Equipment Types Respirators Safety goggles/glasses Face shields Coveralls Bib aprons Chemical-resistant gloves Other (specify)	Wear or Use (Y/N) NO URS UCS UCS UCS UCS	

9.15	If workers use respirators when working with the listed substance, specify for each process type, the work areas where the respirators are used, the type of respirators used, the average usage, whether or not the respirators were fit tested, and the type and frequency of the fit tests. Photocopy this question and complete it separately for each process type.									
<u>CBI</u>										
[_]	Process	type	Batch - Pol;	yurethan	e Polymeri	zation				
	Work Area	Respirator Type		erage sage	Fit Tested (Y/N)	Type of Fit Test ²	Frequency of Fit Tests (per year)			
	E = Oth ² Use the $QL = QL$	ekly	designate th	e type (of fit tes	t: 				
		,								
	•	· · · · · · · · · · · · · · · · · · ·								
[_]	Mark (X)	this box if you att	tach a contir	nuation	sheet.					

9.19 CBI	Describe all of the work practices and administrative controls used to reduce or eliminate worker exposure to the listed substance (e.g., restrict entrance only to authorized workers, mark areas with warning signs, insure worker detection and monitoring practices, provide worker training programs, etc.). Photocopy this question and complete it separately for each process type and work area.								
[_]	Process type	Batch - Polyure	ethane Polymer	rization					
	Work area								
	Area is not restr	icted							
					*				
			W7						
			,						
2.20	Indicate (X) how often you	perform each ho	usekeeping ta	sk used to cl	ean up routine				
	leaks or spills of the lis separately for each proces	sted substance. ss type and work	Photocopy thi area.	s question an	d complete it				
	leaks or spills of the lis	ted substance. s type and work Batch - Polyuret	Photocopy thi area. hane Polymeri	s question an	d complete it				
	leaks or spills of the lis separately for each proces Process type	ted substance. s type and work Batch - Polyuret	Photocopy thi area. hane Polymeri 1-2 Times	s question an	More Than 4				
	leaks or spills of the lis separately for each proces Process type Work area	ted substance. s type and work Batch - Polyuret Less Than	Photocopy thi area. hane Polymeric 1-2 Times Per Day	s question an zation 1 3-4 Times	More Than 4				
	Process type Work area Housekeeping Tasks	ted substance. s type and work Batch - Polyuret Less Than	Photocopy thi area. hane Polymeri 1-2 Times	s question an zation 1 3-4 Times					
	Process type Work area Housekeeping Tasks Sweeping	ted substance. s type and work Batch - Polyuret Less Than	Photocopy thi area. hane Polymeric 1-2 Times Per Day	s question an zation 1 3-4 Times	More Than 4				
	Process type Work area Housekeeping Tasks Sweeping Vacuuming	ted substance. s type and work Batch - Polyuret Less Than	Photocopy thi area. hane Polymeric 1-2 Times Per Day	s question an zation 1 3-4 Times	More Than 4				
	leaks or spills of the lisseparately for each process Process type Work area Housekeeping Tasks Sweeping Vacuuming Vacuuming Vater flushing of floors	ted substance. s type and work Batch - Polyuret Less Than	Photocopy thi area. hane Polymeric 1-2 Times Per Day	s question an zation 1 3-4 Times	More Than 4				
	leaks or spills of the lisseparately for each process Process type Work area Housekeeping Tasks Sweeping Vacuuming Vacuuming Vater flushing of floors	ted substance. s type and work Batch - Polyuret Less Than	Photocopy thi area. hane Polymeric 1-2 Times Per Day	s question an zation 1 3-4 Times	More Than 4				
	leaks or spills of the lisseparately for each process Process type Work area Housekeeping Tasks Sweeping Vacuuming Vacuuming Vater flushing of floors	ted substance. s type and work Batch - Polyuret Less Than	Photocopy thi area. hane Polymeric 1-2 Times Per Day	s question an zation 1 3-4 Times	More Than 4				
	leaks or spills of the lisseparately for each process Process type Work area Housekeeping Tasks Sweeping Vacuuming Vacuuming Vater flushing of floors	ted substance. s type and work Batch - Polyuret Less Than	Photocopy thi area. hane Polymeric 1-2 Times Per Day	s question an zation 1 3-4 Times	More Than 4				

9/21	Do you have a written medical action plan for responding to routine or emergency exposure to the listed substance?
\	Routine exposure
	\frac{\frac{1}{2}}{2}
	No
	Emergency exposure
	Yes
	No
	If yes, where are copies of the plan maintained?
\	Routine exposure:
	Emergency exposure:
<u>\</u>	
9.22	Do you have a written leak and spill cleanup plan that addresses the listed substance? Circle the appropriate response.
	No IN SUFFICIAL QUANTY TO BE REQUIRED 2
	(10) TOPPICIMI COMBILLION DE ROLLONDE
	If yes, where are copies of the plan maintained?
	Has this plan been coordinated with state or local government response organizations? Circle the appropriate response.
	Yes 1
	(b) SUL ABOUL
	
9.23	Who is responsible for monitoring worker safety at your facility? Circle the appropriate response.
	Plant safety specialist
	Insurance carrier 2
	OSHA consultant
\	Other (spedify)
[_]	Mark (X) this box if you attach a continuation sheet.

SECTION 10 ENVIRONMENTAL RELEASE

General Instructions:

Complete Part E (questions 10.23-10.35) for each non-routine release involving the listed substance that occurred during the reporting year. Report on all releases that are equal to or greater than the listed substance's reportable quantity value, RQ, unless the release is federally permitted as defined in 42 U.S.C. 9601, or is specifically excluded under the definition of release as defined in 40 CFR 302.3(22). Reportable quantities are codified in 40 CFR Part 302. If the listed substance is not a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and, thus, does not have an RQ, then report releases that exceed 2,270 kg. If such a substance however, is designated as a CERCLA hazardous substance, then report those releases that are equal to or greater than the RQ. The facility may have answered these questions or similar questions under the Agency's Accidental Release Information Program and may already have this information readily available. Assign a number to each release and use this number throughout this part to identify the release. Releases over more than a 24-hour period are not single releases, i.e., the release of a chemical substance equal to or greater than an RQ must be reported as a separate release for each 24-hour period the release exceeds the RO.

For questions 10.25-10.35, answer the questions for each release identified in question 10.23. Photocopy these questions and complete them separately for each release.

10.01 <u>CBI</u>	Where is your facility located? Circle all appropriate responses.
[_]	Industrial area
	Urban area 2
	Residential area
	Agricultural area 4
	Rural area 5
	Adjacent to a park or a recreational area6
	Within 1 mile of a navigable waterway
	Within 1 mile of a school, university, hospital, or nursing home facility 8
	Within 1 mile of a non-navigable waterway
	Other (specify)

	Specify the exact location of you is located) in terms of latitude (UTM) coordinates.	r facility (from cen and longitude or Uni	tral point where versal Transverse	process uni Hercader
	Latitude	••••••	<u> 38</u>	
	Longitude	****************	129 .	
	UTM coordinates Zone	, North	ing, Eas	sting
10.03	If you monitor meteorological conthe following information.	ditions in the vicin	May of your facil	ity, provid
	Average annual precipitation			inches/y
	Predominant wind direction			
	•			
10.04	Indicate the depth to groundwater	below your fability		
	Indicate the depth to groundwater Depth to groundwater			meters
10.05		indicate (V/N/NA)	22	
10.05 CBI	Por each on-site activity listed, listed substance to the environme	indicate (Y/N/NA) a	22	ses of the definition
10.05 CBI	For each on-site activity listed, listed substance to the environme Y, N, and NA.)	indicate (Y/N/NA) ant. (Refer to the i	ll routine releas nstructions for a ironmental Releas	ses of the definition
.0.05 CBI	Depth to groundwater For each on-site activity listed, listed substance to the environme Y, N, and NA.) On-Site Activity	indicate (Y/N/NA) a sent. (Refer to the integral Envertee Air	ll routine releas nstructions for a ironmental Releas Vater	ses of the definitions
.0.05 CBI	Depth to groundwater For each on-site activity listed, listed substance to the environme Y, N, and NA.) On-Site Activity Manufacturing	indicate (Y/N/NA) a ent. (Refer to the integral Envertheen NA	ll routine releas nstructions for a ironmental Releas Vater NA	ses of the definition se Land
10.05 CBI	For each on-site activity listed, listed substance to the environme Y, N, and NA.) On-Site Activity Manufacturing Importing	indicate (Y/N/NA) a cnt. (Refer to the integral Envertheen Air NA NA	ll routine releas nstructions for a ironmental Releas Vater NA	ses of the definition se Land
10.05 CBI	Por each on-site activity listed, listed substance to the environme Y, N, and NA.) On-Site Activity Manufacturing Importing Processing	indicate (Y/N/NA) a ant. (Refer to the integral Envertage Air NA NA NA NA	ll routine releas nstructions for a ironmental Releas Vater NA NA NA NA NA	ses of the definition see Land NA NA NA NA
	Depth to groundwater For each on-site activity listed, listed substance to the environme Y, N, and NA.) On-Site Activity Manufacturing Importing Processing Otherwise used	indicate (Y/N/NA) a sent. (Refer to the interpretation of the inte	ll routine releas nstructions for a ironmental Releas Vater NA NA	ses of the definition se Land NA NA

10.06 CBI	Provide the following information for the liste of precision for each item. (Refer to the inst an example.)	d substance and spructions for furth	pecify the level ner explanation and
[_]	Quantity discharged to the air	NA	kg/yr ± %
	Quantity discharged in wastewaters	NA	kg/yr ± %
	Quantity managed as other waste in on-site treatment, storage, or disposal units	NA NA	kg/yr ± %
	Quantity managed as other waste in off-site treatment, storage, or disposal units	NA	kg/yr <u>+</u> %
			•
			,
		•	
		,	

10.08 CBI	process block or resi	technologies used to minimize release of am containing the listed substance as id dual treatment block flow diagram(s). Prately for each process type.	entified in vour
[-]	Process type		
	Stream ID Code	NA - Essential a closed system Control Technology	Percent Efficienc
			•
			-
			· · · · · · · · · · · · · · · · · · ·
		<u> </u>	
	·		
	,		

:0.09 :BI]	substance in residual tre source. Do	n terms of a Steatment block for not include rage, equipment locess type.	Identify each emission point source containing the listed ream ID Code as identified in your process block or low diagram(s), and provide a description of each point we material and product storage vents, or fugitive emission eaks). Photocopy this question and complete it separately Batch - Polyurethane Polymerization
	Point Source	** * ***	
	ID Code		Description of Emission Point Source
			NA TO THE REPORT OF THE PARTY O
		•	
		•	•
		•	
			· · · · · · · · · · · · · · · · · · ·
			•
,			
	·		

Poin Sour ID Cox	ce	Physical State	Average Emissions (kg/day)	Frequency ² (days/yr)	Duration ³ (min/day)	Average Emission Factor	Maximum Emission Rate (kg/min)	Maximum Emission Rate Frequency (events/yr)
	_							
-								

			11					
			A				H	
	_				**************************************			
	_				***************************************			
				ignate physica ulate; A = Aer				
²Frec	uen	cy of emis	sion at any l	evel of emissi	on			

Point Source Diameter Exhaust Exit ID Stack (at outlet) Temperature Velocity Building Height(m) (m) (°C) (m/sec) Height(m) Vidth(m) Code Height(m) (m) (°C) (m/sec) Height(m) Vidth(m)			Stack	NA			
	Source ID		Diameter (at outlet)	Temperature	Exit Velocity	Building Height(m)	Building Vidth(m) ²
							
				• • • • • • • • • • • • • • • • • • • •		Control of the second s	
							-
			-				
				-	***************************************		
				-			
			****		-		<u> </u>
	Width o	f attached	or adjacent	building		•	
Width of attached or adjacent building	Use the	following	codes to des	ignate vent	type:		-
Width of attached or adjacent building Use the following codes to designate vent type:							
Use the following codes to designate vent type: H = Horizontal							
Use the following codes to designate vent type: H = Horizontal							
Use the following codes to designate vent type: H = Horizontal							
Use the following codes to designate vent type: H = Horizontal							

10.12 CBI	distribution for each Point Source	in particulate form, indicate the particle size ID Code identified in question 10.09. se it separately for each emission point source					
<u></u> 1	NA Point source ID code						
	Size Range (microns)	Mass Fraction (% ± % precision)					
	< 1						
	≥ 1 to < 10						
	≥ 10 to < 30	·					
	≥ 30 to < 50						
	≥ 50 to < 100	;					
	≥ 100 to < 500						
	≥ 500						
	,	Total = 100%					
	•						

10.13 <u>CBI</u>	types listed which are exposed to the listed substance and which are in service according to the specified weight percent of the listed substance passing through the component. Do this for each process type identified in your process block or residual treatment block flow diagram(s). Do not include equipment types that a not exposed to the listed substance. If this is a batch or intermittently opera process, give an overall percentage of time per year that the process type is exposed to the listed substance. Photocopy this question and complete its response.							
[-]	Process type Batch - Polyurethane Polymerization Percentage of time per year that the listed substance is exposed to this process type							
			of Compo	nents in : d Substan	Service by ce in Pro	y Weight l cess Strea	Percent.	
	Equipment Type Pump seals ¹	Less than 5%	5-10%	11-25%	26-75%	76-99%	Greater than 99%	
	Packed	\star						
	Mechanical	NIA						
	Double mechanical ²	NA						
	Compressor seals ¹	NA						
	Flanges	NA				1874		
	Valves				***			
	Gas ³	NA						
	Liquid	NA						
	Pressure relief devices (Gas or vapor only)	NA			**			
	Sample connections							
	Gas	AUY						
	Liquid		\overline{X}				-	
	Open-ended lines ⁵ (e.g., purge, vent)							
	Gas	NA						
	Liquid		1	**		•	-	
	¹ List the number of pump an compressors	d compressor	seals,	rather th	an the nu	mber of p	umps or	
10.13	continued on next page							

10.13	(continued)							
	² If double mechanical seals are operated with the barrier (B) fluid at a pressure greater than the pump stuffing box pressure and/or equipped with a sensor (S) that will detect failure of the seal system, the barrier fluid system, or both, indicate with a "B" and/or an "S", respectively							
	³ Conditions existing in the valve during normal operation ⁴ Report all pressure relief devices in service, including those equipped with control devices							
10.14 <u>CBI</u>	Pressure Relief Devices with Controls Complete the following table for those pressure relief devices identified in 10.13 to indicate which pressure relief devices in service are controlled. If a pressure relief device is not controlled, enter "None" under column c.							
	Number of Pressure Relief Devices	b. Percent Chemical in Vessel	Control Device	d. Estimated Control Efficiency ²				
	Refer to the table in question 10.13 and record the percent range given under the heading entitled "Number of Components in Service by Weight Percent of Listed Substance" (e.g., <5%, 5-10%, 11-25%, etc.)							
	² The EPA assigns a control efficiency of 100 percent for equipment leaks controlled with rupture discs under normal operating conditions. The EPA assigns a control efficiency of 98 percent for emissions routed to a flare under normal operating conditions							
[_]	Mark (X) this box if you at	ttach a continuation	sheet.					

Concer (ppm or Measure Equipment Type From Pump seals Packed Mechanical Double mechanical Compressor seals Flanges Valves Gas	etection ntration r mg/m³)	•••••	Batch - Po	olyurethane F	\ ^ 3
Leak Do Concer (ppm or Measu Equipment Type from Pump seals Packed Mechanical Double mechanical Compressor seals Flanges Valves Gas	ntration	• • • • • • • • • •	Daten - Ft	Tame cuarie 1	
Concer (ppm or Measure Equipment Type From Pump seals Packed Mechanical Double mechanical Compressor seals Flanges Valves Gas	ntration				Olymerization———
Pump seals Packed Mechanical Double mechanical Compressor seals Flanges Valves Gas	ured at Inches Source	Detection Device ¹		Repairs Initiated (days after detection)	(days after
Packed Mechanical Double mechanical Compressor seals Flanges Valves Gas	bource	DEVICE	(per year)	detection)	initiated)
Mechanical Double mechanical Compressor seals Flanges Valves Gas					
Double mechanical Compressor seals Flanges Valves Gas					
Compressor seals Flanges Valves Gas					
Flanges Valves Gas			de la constante de la constant		
Valves Gas				•	
Gas					
•					
Liquid					
Pressure relief devices (gas or vapor only)					
Sample connections					
Gas					
Liquid				_	
Open-ended lines					
Gas					
Liquid					
¹ Use the following codes to	designate d	etection de	evice:		
POVA = Portable organic vap FPM = Fixed point monitorin O = Other (specify)					

10.23	Indicate the date and time when the release occurred and when the release cear	sed or
	was stopped. If there were more than six releases, attach a continuation she	et and
	list all releases.	

Release	Date Started	Time (am/pm)	Date Stopped	Time (am/pm)
1	Nowa To	Data		
2		and the state of t		
3				dance (charge)
4				
5		-		•
6				,,

10 24 Specify the weather conditions at the time of each release.

Release	Wind Speed (km/hr)	Wind Direction	Humidity (%)	Temperature (°C)	Precipitation (Y/N)
1					
2		\	\		
4				\ <u>.</u>	_
5			\		
۷ ۲	\		\	\	\

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